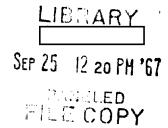
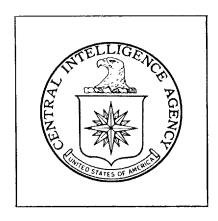
Approved For Release 2002/08/13 : CIA-RDP79T00919A000300110001-7







S 31291



DIRECTORATE OF INTELLIGENCE

Imagery Analysis Report

Lan-chou Chemical Industries China

Declass Review by NIMA/DOD

25X1

Top Secret

PAGES

25X1

Approved For Release 2002/08/13 : CIA-RDP79T00919A000300110001-7

_	_			
\neg	_	v	1	
_	7	^		

Approved For Release 2006 608 ET | CIA-RDP79T009 9A000300110001-7

25X1 25X1

IMAGERY ANALYSIS SERVICE

August 1967

LAN-CHOU CHEMICAL INDUSTRIES

CHINA

SUMMARY

25X1

This study of the chemical industries in Lan-chou, China, reveals continued expansion in the nitrogen fertilizer plant, the petroleum refinery, and the petrochemical complex as of the date of the latest good quality photography covering all three installations. Additional processes were identified in the nitrogen fertilizer plant for nitrogenous fertilizer and possibly superphosphate, and new units were noted in the refinery. A few of the production areas in the petrochemical complex were identified as being associated with synthetic rubber; however, a large part of the complex remains unidentified.

25X1

25X1

25X1

25X1

IMAGERY ANALYSIS SERVICE

CONTENTS

<u>.</u>	Page
Summary	l
Introduction	ΣĻ
Lan-chou Nitrogen Fertilizer Plant	6
Lan-chou Petrochemical Complex	8
Lan-chou Petroleum Refinery '	10
References	11
Illustrations	
Figure 1. Chemical Industries (photograph)	3
Figure 2. Nitrogen Fertilizer Plant (photograph)	5
Figure 3. Petrochemical Complex (photograph)	7
Figure 4. Petroleum Refinery (photograph)	9

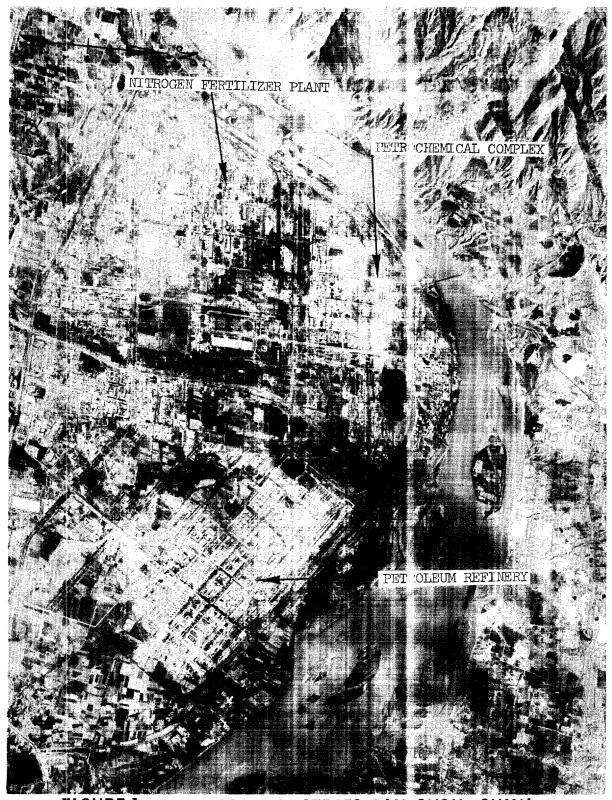


FIGURE 1 CHEMICAL INDUSTRIES, LAN-CHOU, CHINA,

Approved For Release 2002/08/13 : CIA-RDP79T

3 : CIA-RDP79T00919A000300110001-7

25X1

IMAGERY ANALYSIS SERVICE

INTRODUCTION

The chemical industries at Lan-chou consist of a nitrogen fertilizer plant, a petrochemical complex, and a petroleum refinery. They are located within a large industrial complex 9 nautical miles west of Lan-chou at the approximate geographic coordinates 36-06N 103-37E (Figure 1). This area, along the south bank of the Huang Ho (Yellow River), also contains a large thermal power plant, an aluminum plant, and several other small industries.

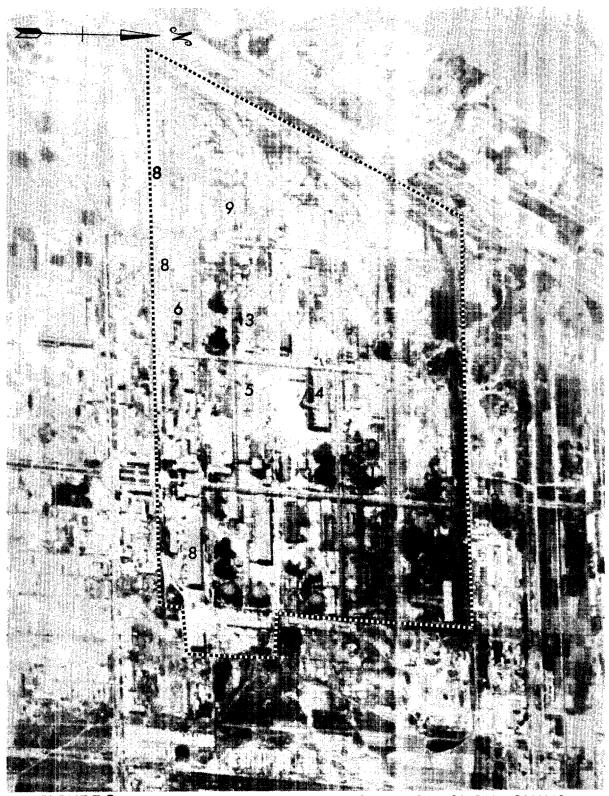


FIGURE 2. NITROGEN FERTILIZER PLANT, LAN-CHOU, CHINA,

LAN-CHOU NITROGEN FERTILIZER PLANT

A previous report 1/ gave a detailed readout of the plant with regard to production of hydrogen, ammonia, nitric acid, and ammonium nitrate. This study will enlarge upon newly identified facilities within the plant The following descriptions are keyed to annotations on Figure 2:

- 1. Air Liquefaction Building (nitrogen production)
- 2. Air Intake
- Possible Oxidizer Building for Ammonia (nitric acid production)
- 4. Reactor Building and Nitric Acid Absorbers
- 5. Possible Quality Control Laboratory
- 6. Possible Crushing Building for Phosphate Ore
- 7. Possible Mixing and Dens Building for Superphosphate Fertilizer Production
- 8. Warehouses
- 9. Probable Liquid Ammonia Tanks semiburied
- 10. Oxygen Gasholder
- 11. Nitrogen Gasholder

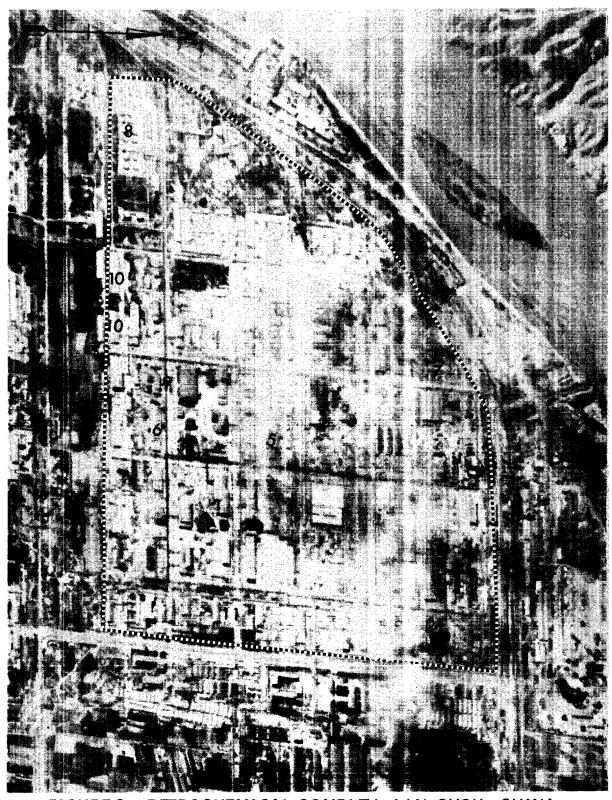


FIGURE 3. PETROCHEMICAL COMPLEX, LAN-CHOU, CHINA

LAN-CHOU PETROCHEMICAL COMPLEX

Some of the buildings identified in this study are characteristic of synthetic rubber and styrene production plants. A number of other buildings, several of which contain fractionating towers, were observed; however, the functions of these buildings and the associated equipment could not be determined.

The following annotations are keyed to Figure 3:

- 1. Boilerhouse
- 2. Gasholder for Raw Gas
- 3. Aldol Unit (acetaldenhyde conversion to aldol)
- 4. Injector Building (hydrogenation)
- 5. Styrene Plant
- 6. Acetaldehyde Building
- 7. Alcohol Plant
- 8. Styrene and Ethylbenzene Storage
- 9. Plastics Fabricating Plant
- 10. Warehouses
- 11. Administration Area

This plant appears to be under construction and is not in operation.

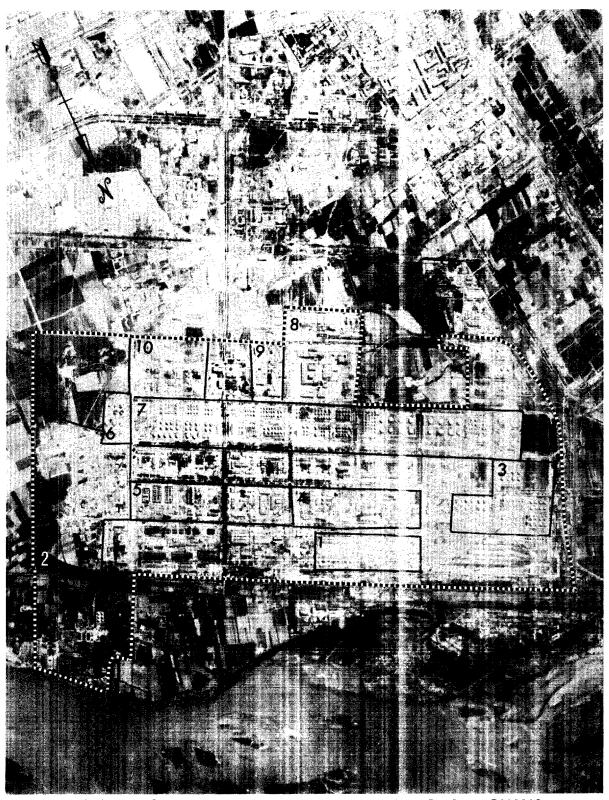


FIGURE 4. PETROLEUM REFINERY, LAN-CHOU, CHINA

Approved For Release 2002/08/13 | CIA-RDP79T00919A0003001 10001-7

CIA-RDP79T00919A000300110001-7

IMAGERY ANALYSIS SERVICE

LAN-CHOU PETROLEUM REFINERY

A previous memorandum 2/ provided a detailed readout of the refinery components; therefore, this study will update developments in the plant which have taken place since ______ The following information is keyed to Figure 4:

25X1

<u> Item</u>	<u>Area</u>	New Facilities and Changes
1	Packaging and Shipping Area	l building enlarged/completed
2 .	Unidentified Area	New construction
3	Tank Storage Area	7 cylindrical tanks
1,	Lubricating Oil Refinery Area	3 large cylindrical tanks
5	Unidentified Area	New construction and 3 horizontal tanks
6	Tank Storage Area	4 cylindrical tanks and 2 cylindrical tanks under construction
7 .	Tank Storage Area	5 cylindrical tanks removed and 2 cylindrical tanks replaced
8	Possible Petrochemical Area	At least 16 buildings added
9	Motor Pool	At least 4 buildings added
10.	Possible Petrochemical Area	3 buildings added

25X1	Approved For Rele 1920 CIA-RDP79T00919A000300110001-7	25 X1
	REFERENCES	
		25,X
	Documents	
	CIA/PIR-65097, Lan-chou Nitrogen Fertilizer Plant, Lan-chou, China, March 1966 (TOP SECRET	25X
25X1	2. Memorandum PID/IB-104/63, 7 June 1963, Petroleum Refinery, Lan-chou, China (SECRET	25X ²

Requirement

C-SI6-83,671

DDI/IAS Project

31299**-**6

Top Secret